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James W. Cooper, Anni R. Coden, Eric W. Brown

November 2002 **Proceedings of the eleventh international conference on Information and knowledge management**

Publisher: ACM Press

Full text available: [pdf\(180.68 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe a system for rapidly determining document similarity among a set of documents obtained from an information retrieval (IR) system. We obtain a ranked list of the most important terms in each document using a rapid phrase recognizer system. We store these in a database and compute document similarity using a simple database query. If the number of terms found to not be contained in both documents is less than some predetermined threshold compared to the total number of terms in the doc ...

Keywords: databases, document similarity, duplicate documents, shingles, text mining2 [Managing electronic interchange of business documents](#)

Snehamay Banerjee, Ram L. Kumar

July 2002 **Communications of the ACM**, Volume 45 Issue 7

Publisher: ACM Press

Full text available: [pdf\(112.37 KB\)](#)[html\(30.21 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Establishing a framework for controlled growth of electronic document interchange, based on a diverse set of technological, organizational, and interorganizational factors.

3 [Information integration with attribution support for corporate profiles](#)

Thomas Lee, Melanie Chams, Robert Nado, Michael Siegel, Stuart Madnick

November 1999 **Proceedings of the eighth international conference on Information and knowledge management**

Publisher: ACM Press

Full text available: [pdf\(845.25 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The proliferation of electronically available data within large organizations as well as publicly available data (e.g. over the World Wide Web) poses challenges for users who wish to efficiently interact with and integrate multiple heterogeneous sources. This paper presents CI3, a corporate information integrator, which applies XML as a tool to facilitate data mediation and integration amongst heterogeneous sources in the context of financial analysts creating corporate ...

Keywords: XML, attribution, data integration, data mediation, metadata

4 The view from the trenches: issues in the ontology of restricted domains



David D. McDonald

October 2001 **Proceedings of the international conference on Formal Ontology in Information Systems - Volume 2001**

Publisher: ACM Press

Full text available: pdf(1.34 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

We consider the impact of strict processing limitations on the design of an ontology for information extraction from newswire texts. We conclude that requiring online, real-time processing leads to a particular set of answers to fundamental issues of relation size and the choice of primary categories. We show how to satisfy these requirements by using relational categories directly during analysis and by using a reified lattice of their partial saturations that is annotated with the ling ...

Keywords: financial reports, information extraction, ontology design, type-raising

5 Using leading text for news summaries: evaluation results and implications for commercial summarization applications

Mark Wasson

August 1998 **Proceedings of the 17th international conference on Computational linguistics - Volume 2 , Proceedings of the 36th annual meeting on Association for Computational Linguistics - Volume 2**

Publisher: Association for Computational Linguistics , Association for Computational Linguistics

Full text available: pdf(442.07 KB)



[Publisher Site](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

Leading text extracts created to support some online Boolean retrieval goals are evaluated for their acceptability as news document summaries. Results are presented and discussed from the perspective of commercial summarization technology needs.

6 XSLT powers a new wave of web applications

Cameron Laird

March 2002 **Linux Journal**, Volume 2002 Issue 95

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(17.61 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Cameron explains the mysteries of XSLT and its multiple uses.

7 A network-based research support facility and data archive



Richard C. Roistacher, Barbara B. Noble

October 1976 **Proceedings of the annual conference**

Publisher: ACM Press

Full text available: pdf(447.76 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A data archive and research support facility for researchers and planners in criminal justice provides services over a nationwide data communication network. The use of a network allows many services not otherwise possible, such as use of shared archival data files and common software. Clients are encouraged to form working groups which share experiences and resources. Additional problems encountered in managing a network-based facility are discussed.

8 The scent of a site: a system for analyzing and predicting information scent, usage, and usability of a Web site

Ed H. Chi, Peter Pirolli, James Pitkow



April 2000 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Publisher: ACM Press

Full text available: pdf(1.29 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Designers and researchers of users' interactions with the World Wide Web need tools that permit the rapid exploration of hypotheses about complex interactions of user goals, user behaviors, and Web site designs. We present an architecture and system for the analysis and prediction of user behavior and Web site usability. The system integrates research on human information foraging theory, a reference model of information visualization and Web data-mining techniques. The system also incorporat ...

Keywords: World Wide Web, data mining, dome tree, information foraging, information scent, information visualization, longest repeated subsequences, usability, usage-based layout

9 [Pad: an alternative approach to the computer interface](#)



Ken Perlin, David Fox

September 1993 **Proceedings of the 20th annual conference on Computer graphics and interactive techniques**

Publisher: ACM Press

Full text available: pdf(234.36 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

10 [Risks to the public](#)



P. G. Neumann

October 1990 **ACM SIGSOFT Software Engineering Notes**, Volume 15 Issue 5

Publisher: ACM Press

Full text available: pdf(1.56 MB)

Additional Information: [full citation](#), [index terms](#)

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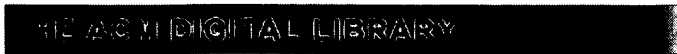
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1 [Short papers: personal assistants: Context-based similar words detection and its application in specialized search engines](#)



Hisham Al-Mubaid, Ping Chen

 January 2005 **Proceedings of the 10th international conference on Intelligent user interfaces**

Publisher: ACM Press

 Full text available: pdf(67.09 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a new context-based method for automatic detection and extraction of similar and related words from texts. Finding similar words is a very important task for many NLP applications including anaphora resolution, document retrieval, text segmentation, and text summarization. Here we use word similarity to improve search quality for search engines in (general and) specific domains. Our method is based on rules for extracting the words in the neighborhood of a target word, then c ...

Keywords: information retrieval, word-similarity detection

2 [Information integration with attribution support for corporate profiles](#)



Thomas Lee, Melanie Chams, Robert Nado, Michael Siegel, Stuart Madnick

 November 1999 **Proceedings of the eighth international conference on Information and knowledge management**

Publisher: ACM Press

 Full text available: pdf(845.25 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The proliferation of electronically available data within large organizations as well as publicly available data (e.g. over the World Wide Web) poses challenges for users who wish to efficiently interact with and integrate multiple heterogeneous sources. This paper presents CI3, a corporate information integrator, which applies XML as a tool to facilitate data mediation and integration amongst heterogeneous sources in the context of financial analysts creating corporate ...

Keywords: XML, attribution, data integration, data mediation, metadata

3 [Public access Web information systems: lessons from the Internet EDGAR project](#)



Ajit Kambil, Mark Ginsburg


 July 1998 **Communications of the ACM**, Volume 41 Issue 7

Publisher: ACM Press

 Full text available: pdf(226.49 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

4. "Constant, constant, multi-tasking craziness": managing multiple working spheres


 Victor M. González, Gloria Mark
April 2004 **Proceedings of the SIGCHI conference on Human factors in computing systems**
Publisher: ACM Press


Full text available:  [pdf\(503.16 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Most current designs of information technology are based on the notion of supporting distinct tasks such as document production, email usage, and voice communication. In this paper we present empirical results that suggest that people organize their work in terms of much larger and thematically connected units of work. We present results of fieldwork observation of information workers in three different roles: analysts, software developers, and managers. We discovered that all of these types of ...


Keywords: attention management, empirical study, information overload, interruptions, personal information management

5 Automatically locating, extracting and analyzing tabular data

 William Kornfeld, John Wattecamps
August 1998 **Proceedings of the 21st annual international ACM SIGIR conference on Research and development in information retrieval**
Publisher: ACM Press

Full text available:  [pdf\(297.71 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

6 Timely financial reporting at corporate web sites?

 Michael Ettredge, Vernon J. Richardson, Susan Scholz
June 2002 **Communications of the ACM**, Volume 45 Issue 6
Publisher: ACM Press

Full text available:  [pdf\(129.49 KB\)](#)  [html\(23.23 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Considering the competitive advantage of having current financial information available online, it's curious how few institutions actually succeed in this regard.


7 Fast supervised dimensionality reduction algorithm with applications to document categorization & retrieval

 George Karypis, Eui-Hong (Sam) Han
November 2000 **Proceedings of the ninth international conference on Information and knowledge management**
Publisher: ACM Press

Full text available:  [pdf\(270.71 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 Database mining challenges for digital libraries

 Robert Grossman
December 1996 **ACM Computing Surveys (CSUR)**
Publisher: ACM Press

Full text available:  [html\(10.82 KB\)](#) Additional Information: [full citation](#)

9 The external auditor's review of computer controls

 Charles R. Litecky, Larry E. Rittenberg
May 1981 **Communications of the ACM**, Volume 24 Issue 5

Publisher: ACM Press

Full text available:  [pdf\(814.82 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Foreign Corrupt Practices Act of 1977, coupled with growing demands for corporate accountability, have forced both auditors and computer administrators to evaluate computer based controls. Computer administrators can benefit from both a knowledge of an auditor's approaches to evaluating controls and his/her recommendations for control improvements. Here, a survey of the control evaluation practices and desirable control features identified by computer auditors is presented, along with r ...

Keywords: EDP audit, Foreign Corrupt Practices Act, computer control, computer management


10 Industry session 1: information retrieval: XML parsing: a threat to database performance



Matthias Nicola, Jasmi John

November 2003 **Proceedings of the twelfth international conference on Information and knowledge management**

Publisher: ACM Press

Full text available:  [pdf\(210.86 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

XML parsing is generally known to have poor performance characteristics relative to transactional database processing. Yet, its potentially fatal impact on overall database performance is being underestimated. We report real-word database applications where XML parsing performance is a key obstacle to a successful XML deployment. There is a considerable share of XML database applications which are prone to fail at an early and simple road block: XML parsing. We analyze XML parsing performance an ...

Keywords: DOM, SAX, XML, database, parser, performance, validation

11 A comparison of rankings produced by summarization evaluation measures

Robert L. Donaway, Kevin W. Drummey, Laura A. Mather

April 2000 **NAACL-ANLP 2000 Workshop on Automatic summarization - Volume 4**

Publisher: Association for Computational Linguistics

Full text available:  [pdf\(1.03 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Summary evaluation measures produce a ranking of all possible extract summaries of a document. Recall-based evaluation measures, which depend on costly human-generated ground truth summaries, produce uncorrelated rankings when ground truth is varied. This paper proposes using sentence-rank-based and content-based measures for evaluating extract summaries, and compares these with recall-based evaluation measures. Content-based measures increase the correlation of rankings induced by synonymous gr ...

12 Information handling: Mobile phones and paper documents: evaluating a new approach for capturing microfinance data in rural India



Tapan S. Parikh, Paul Javid, Sasikumar K., Kaushik Ghosh, Kentaro Toyama

April 2006 **Proceedings of the SIGCHI conference on Human Factors in computing systems CHI '06**

Publisher: ACM Press

Full text available:  [pdf\(781.51 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

CAM is a user interface toolkit that allows a camera-equipped mobile phone to interact with paper documents. It is designed to automate inefficient, paper-intensive information processes in the developing world. In this paper we present a usability evaluation of an application built using CAM for collecting data from microfinance groups in rural India. This application serves an important and immediate need in the microfinance industry. Our quantitative results show that the user interface is ef ...

Keywords: ICT, document processing, microfinance, mobile phone, paper user interface, rural development, visual codes

13 IR-3 (information retrieval): fusion of retrieval systems: A multi-system analysis of document and term selection for blind feedback



Thomas R. Lynam, Chris Buckley, Charles L. A. Clarke, Gordon V. Cormack

November 2004 **Proceedings of the thirteenth ACM international conference on Information and knowledge management CIKM '04**

Publisher: ACM Press

Full text available: pdf(483.55 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Experiments were conducted to explore the impact of combining various components of eight leading information retrieval systems. Each system demonstrated improved effectiveness with the use of <i>blind feedback</i>, in which the results of a preliminary retrieval step were used to augment the efficacy of a secondary retrieval step. The hybrid combination of primary and secondary retrieval steps from different systems in a number of cases yielded better effectiveness than either of the ...

Keywords: blind feedback, fusion, pseudo-relevance feedback

14 Curriculum recommendations for graduate professional programs in information systems



May 1972 **Communications of the ACM**, Volume 15 Issue 5

Publisher: ACM Press

Full text available: pdf(4.00 MB) Additional Information: [full citation](#), [references](#), [citations](#)

Keywords: education, information analysis, information systems development, management information systems, management systems, system design, systems analysis

15 Automating the Technical Publications Department



John D. Browne

January 1982 **Proceedings of the 1st annual international conference on Systems documentation**

Publisher: ACM Press

Full text available: pdf(404.72 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

A DAY AT THE OFFICE—1995 By the time George Denning arrives at his office at Seacom, Inc., at 10:30 a.m. this morning, he has already done three hours of work. George, a Senior Technical Writer in the Software Publications Department, wanted some isolation this morning to edit a particularly tricky section in a user guide. His home computer, hooked up to Seacom's host computer through the local cable network, allowed him to edit the document on-line in the quiet of his den, ...

16 The management of end-user computing: status and directions



James C. Brancheau, Carol V. Brown

December 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 4

Publisher: ACM Press

Full text available: pdf(3.74 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The development of computing applications by the people who have direct need for them in their work has become commonplace. During the 1980s, development of applications by "end users" accelerated and became a key management and research concern. Known as "end-user computing," the phenomena and research associated with this trend cross a

variety of disciplines. This article critically surveys the published literature on end-user computing (EUC) management according t ...

Keywords: desktop computing, end-user computing, information center, information technology management, personal computing

17 A web site design model for financial information



Michael Ettredge, Vernon J. Richardson, Susan Scholz

November 2001 **Communications of the ACM**, Volume 44 Issue 11

Publisher: ACM Press

Full text available: pdf(128.70 KB)

html(26.09 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

18 Documentation quality: The documentation of quality engineering: applying use cases to drive change in software engineering models



Ashley Williams

October 2004 **Proceedings of the 22nd annual international conference on Design of communication: The engineering of quality documentation**

Publisher: ACM Press

Full text available: pdf(277.42 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper examines how documentation is used to create "quality" engineering processes in software development, focusing on recent industry trends of adopting use case driven software engineering models, to investigate a phenomenon that in this paper I call "genre dumping." The paper aims to address questions about how software development methods change under a use-case driven model. For example, is it really that easy to adopt the use case methodology? The paper draws from a 24-month case ...

Keywords: iterative methods, requirements engineering, rhetorical genre theory, specifications, text analysis, use cases, waterfall methods

19 Key management and key exchange: A temporal key management scheme for secure broadcasting of XML documents



Elisa Bertino, Barbara Carminati, Elena Ferrari

November 2002 **Proceedings of the 9th ACM conference on Computer and communications security**

Publisher: ACM Press

Full text available: pdf(242.89 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Secure broadcasting of web documents is becoming a crucial need for many web-based applications. Under the broadcast document dissemination strategy a web document source periodically broad-casts (portions of) its documents to a possibly large community of subjects, without the need of explicit subject requests. By secure broadcasting we mean that the delivery of information to sub-jects must obey the access control policies of the document source. Since different subjects may have the right to ...

Keywords: XML, secure broadcasting, temporal key management

20 Electronic signatures: a brief review of the literature



Aashish Srivastava

August 2006 **Proceedings of the 8th international conference on Electronic commerce: The new e-commerce: innovations for conquering current barriers, obstacles and limitations to conducting successful business on the internet ICEC '06**

Publisher: ACM Press

Full text available:  pdf(260.60 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The advent of the Internet saw technological innovations such as electronic signatures, in particular digital signatures, as an electronic equivalent to manuscript signatures in the online environment. However, the use of this technology is still insignificant. The aim of this paper is to review the various studies that have explored the technical and legal issues associated with electronic signatures and digital signatures with an objective to provide insights on their lack of acceptance.

Keywords: complexity, cost, digital signatures, electronic signatures, lack of acceptance, legislation, liability, security

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- 1 [Proceedings of the SIGNUM conference on the programming environment for development of numerical software](#)


 March 1979 **ACM SIGNUM Newsletter**, Volume 14 Issue 1

Publisher: ACM Press

 Full text available: [pdf\(5.02 MB\)](#) Additional Information: [full citation](#)

- 2 [Frontmatter \(TOC, Letters, Philosophy of computer science, Interviewers needed, Taking software requirements creation from folklore to analysis, SW components and product lines: from business to systems and technology, Software engineering survey\)](#)


 September 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 5

Publisher: ACM Press

 Full text available: [pdf\(1.98 MB\)](#) Additional Information: [full citation](#), [index terms](#)

- 3 [Notable computer networks](#)



John S. Quarterman, Josiah C. Hoskins

 October 1986 **Communications of the ACM**, Volume 29 Issue 10

Publisher: ACM Press

 Full text available: [pdf\(4.66 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Computer networks are becoming more numerous and more diverse. Collectively, they constitute a worldwide metanetwork.

- 4 [Guidelines for selecting a financial modeling language](#)



Donald A. Heckerman, Ian J. Adams

 January 1978 **Proceedings of the 10th conference on Winter simulation - Volume 1**

Publisher: IEEE Press

 Full text available: [pdf\(440.66 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The purpose of this paper is two-fold. First, to describe some of the different types of computer software which can be used to develop financial models, and to indicate the advantages and disadvantages of each type. Second, to suggest a set of guidelines for relating the financial modeling needs of the user to the attributes of the numerous financial modeling languages which are currently available. The discussion and guidelines are based on Ernst & Ernst's experience in car ...

5 Information systems outsourcing: a survey and analysis of the literature



Jens Dibbern, Tim Goles, Rudy Hirschheim, Bandula Jayatilaka

November 2004 **ACM SIGMIS Database**, Volume 35 Issue 4

Publisher: ACM Press

Full text available: [pdf\(1.51 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

In the last fifteen years, academic research on information systems (IS) outsourcing has evolved rapidly. Indeed the field of outsourcing research has grown so fast that there has been scant opportunity for the research community to take a collective breath, and complete a global assessment of research activities to date. This paper seeks to address this need by exploring and synthesizing the academic literature on IS outsourcing. It offers a roadmap of the IS outsourcing literature, highlight ...

Keywords: determinants, literature review, outcomes, outsourcing, relationships, research approaches, theoretical foundations

6 Replication for web hosting systems



Swaminathan Sivasubramanian, Michal Szymaniak, Guillaume Pierre, Maarten van Steen

September 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 3

Publisher: ACM Press

Full text available: [pdf\(374.99 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Replication is a well-known technique to improve the accessibility of Web sites. It generally offers reduced client latencies and increases a site's availability. However, applying replication techniques is not trivial, and various Content Delivery Networks (CDNs) have been created to facilitate replication for digital content providers. The success of these CDNs has triggered further research efforts into developing advanced <i>Web replica hosting systems</i>. These are systems that ...

Keywords: Web replication, content delivery networks

7 Innovative Document Systems: TabulaMagica: an integrated approach to manage complex tables



Horst Silberhorn

November 2001 **Proceedings of the 2001 ACM Symposium on Document engineering**

Publisher: ACM Press

Full text available: [pdf\(138.97 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Tables are a special part of documents and specific means have been developed to manage them. Step by step, the underlying models to edit and format tables have been improved or supplemented by new ones. These models led to a wide variety of table formats and produced "tabular legacies", making it difficult to edit, use, or modify tables in varying formats. It is even more time-consuming to convert them for various media or to unify or compare tabular information. Our approach to tackle these pr ...

Keywords: WYSIWYG editor, separation of structure and presentation, table processing, tabular legacies

8 A unified approach to test data analysis

Michael A. Gianfagna

June 1978 **Proceedings of the 15th conference on Design automation**

Publisher: IEEE Press

Full text available: [pdf\(581.18 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

To provide cost-effective performance evaluation or engineering feedback from circuit test

results often requires that complex analyses be performed on large volumes of non-standard data. Using a large scale data management system and a modular design philosophy, a system to cope with the above requirements has been developed. TDAS (Test Data Analysis System) has provided timely and economic solutions to test data analysis problems which might have been intractable by other means.

9 Real-time shading



Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi Rost

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: [pdf\(7.39 MB\)](#) Additional Information: [full citation](#), [abstract](#)

Real-time procedural shading was once seen as a distant dream. When the first version of this course was offered four years ago, real-time shading was possible, but only with one-of-a-kind hardware or by combining the effects of tens to hundreds of rendering passes. Today, almost every new computer comes with graphics hardware capable of interactively executing shaders of thousands to tens of thousands of instructions. This course has been redesigned to address today's real-time shading capabili ...

10 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

11 Heraclitus: elevating deltas to be first-class citizens in a database programming language



Shahram Ghandeharizadeh, Richard Hull, Dean Jacobs

September 1996 **ACM Transactions on Database Systems (TODS)**, Volume 21 Issue 3

Publisher: ACM Press

Full text available: [pdf\(3.76 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Traditional database systems provide a user with the ability to query and manipulate one database state, namely the current database state. However, in several emerging applications, the ability to analyze "what-if" scenarios in order to reason about the impact of an update (before committing that update) is of paramount importance. Example applications include hypothetical database access, active database management systems, and version management, to name a few. The central th ...

Keywords: active databases, deltas, execution model for rule application, hypothetical access, hypothetical database state

12 Computing curricula 2001



September 2001 **Journal on Educational Resources in Computing (JERIC)**

Publisher: ACM Press

Full text available: [pdf\(613.63 KB\)](#) [html\(2.78 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

13 Translation of Decision Tables



Udo W. Pooch

June 1974 **ACM Computing Surveys (CSUR)**, Volume 6 Issue 2

Publisher: ACM Press

Full text available: [pdf\(2.10 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



14 Building on the user's experience: Examining the use case as genre in software development and documentation



Ashley Williams

October 2003 **Proceedings of the 21st annual international conference on Documentation**

Publisher: ACM Press

Full text available: [pdf\(252.16 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



The practice of outsourcing among organizations frequently involves external companies or consultants introducing texts (or in rhetorical genre theory terms, genres) as means of transforming work practices in the company who sought expert help from the outside. Such an abrupt-seeming introduction of unfamiliar texts upon workers, either within or across organizations, characterizes a practice I call "genre dumping." This practice, however, contrasts with the rhetorical genre theory perspective t ...

Keywords: genre, requirements engineering, rhetorical genre theory, textual analysis, use cases

15 Formalizing space shuttle software requirements: four case studies



Judith Crow, Ben Di Vito

July 1998 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 7 Issue 3

Publisher: ACM Press

Full text available: [pdf\(267.77 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)



This article describes four case studies in which requirements for new flight software subsystems on NASA's Space Shuttle were analyzed using mechanically supported formal methods. Three of the studies used standard formal specification and verification techniques, and the fourth used state exploration. These applications illustrate two thesis: (1) formal methods complement conventional requirements analysis processes effectively and (2) formal methods confer benefits even when only selecti ...

Keywords: flight software, formal methods, requirements analysis, space shuttle, state exploration, theorem proving

16 Information retrieval models: Detecting similar documents using salient terms



James W. Cooper, Anni R. Coden, Eric W. Brown

November 2002 **Proceedings of the eleventh international conference on Information and knowledge management**

Publisher: ACM Press

Full text available: [pdf\(180.68 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



We describe a system for rapidly determining document similarity among a set of documents obtained from an information retrieval (IR) system. We obtain a ranked list of the most important terms in each document using a rapid phrase recognizer system. We store these in a database and compute document similarity using a simple database query. If the number of terms found to not be contained in both documents is less than

some predetermined threshold compared to the total number of terms in the doc ...

Keywords: databases, document similarity, duplicate documents, shingles, text mining

17 Special issue on knowledge representation



Ronald J. Brachman, Brian C. Smith
February 1980 **ACM SIGART Bulletin**, Issue 70

Publisher: ACM Press

Full text available: [pdf\(13.13 MB\)](#) Additional Information: [full citation](#), [abstract](#)

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were two useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Secon ...

18 A functional approach to integrating database and expert systems



Tore Risch, René Reboh, Peter E. Hart, Richard O. Duda
December 1988 **Communications of the ACM**, Volume 31 Issue 12

Publisher: ACM Press

Full text available: [pdf\(1.67 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A new system architecture shares certain characteristics with database systems, expert systems, functional programming languages, and spreadsheet systems, but is very different from any of these.

19 Inverted files for text search engines



Justin Zobel, Alistair Moffat
July 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 2

Publisher: ACM Press

Full text available: [pdf\(944.29 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The technology underlying text search engines has advanced dramatically in the past decade. The development of a family of new index representations has led to a wide range of innovations in index storage, index construction, and query evaluation. While some of these developments have been consolidated in textbooks, many specific techniques are not widely known or the textbook descriptions are out of date. In this tutorial, we introduce the key techniques in the area, describing both a core impl ...

Keywords: Inverted file indexing, Web search engine, document database, information retrieval, text retrieval

20 Frontmatter (TOC, Letters, Election results, Software Reliability Resources!,



Computing Curricula 2004 and the Software Engineering Volume SE2004, Software Reuse Research, ICSE 2005 Forward)

July 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 4

Publisher: ACM Press

Full text available: [pdf\(6.19 MB\)](#) Additional Information: [full citation](#), [index terms](#)

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